

## Utah Weekly Pertussis Update

2019 data, through MMWR week ending September 28 (MMWR week 39)

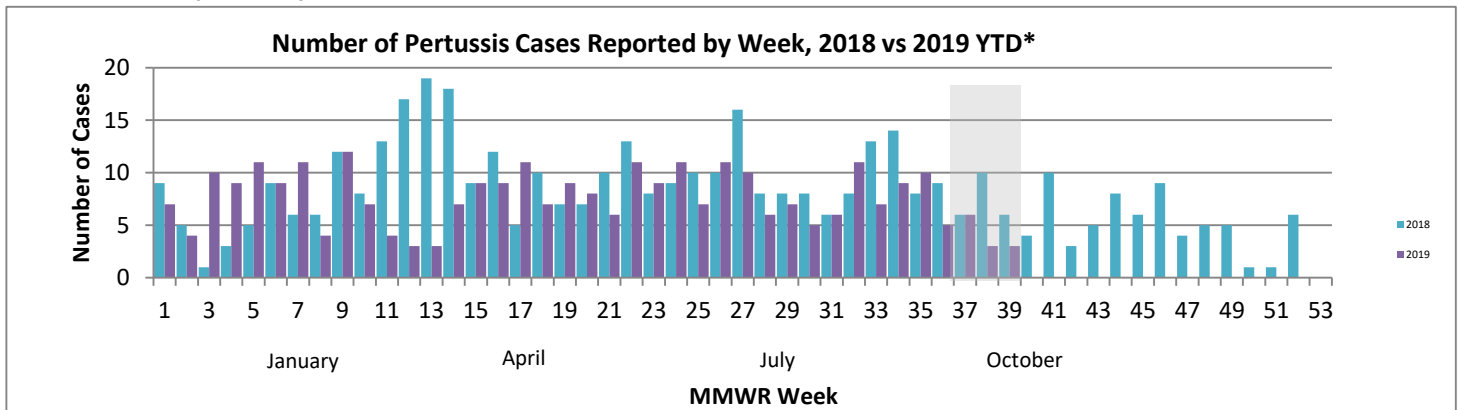
Data presented in this report are based on current data available and will be subject to change weekly.

### Data Summary

Total number of cases reported, 2019 year-to-date (YTD)	297	Utah Incidence rate, 2019 year-to-date (YTD) per 100,000 person-years	13.2
Total number of cases reported 2018	428	Utah Incidence rate, 2018 per 100,000 person-years	14.6
Number of cases reported in past week	3	National Incidence rate*, 2017 per 100,000 person-years.	5.8
Total number of cases reported, through same time period 2018	355	2019 Hospitalizations	8
Age groups with the highest rates	<1 1-4	2019 Cases in infants <1 year	12

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2019 Year-to-Date Incidence Rates, By Age

Age (years)	2019 Cases	2017 population	Rate*
<1	12	51,401	32.2
1-4	46	203,799	31.1
5-14	75	521,331	19.8
15-24	54	495,829	15.0
25-34	24	457,423	7.2
35-44	38	422,547	12.4
45-54	21	317,532	9.1
55-64	13	296,399	6.0
65+	13	335,572	5.3
Unknown	1	-	-
Total	297	3,101,833	13.2

\* Rate is calculated per 100,000 person years.

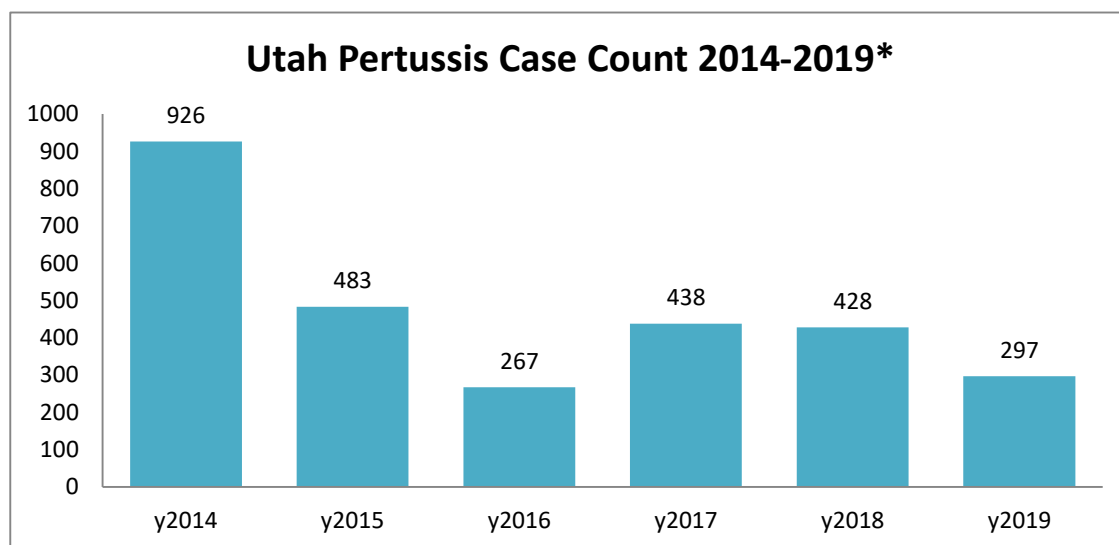
Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

### School Age Incidence Rates, 2019 Year-to-Date

Grade	Age (years)	2019 Cases	2017 Population	Rate*
Preschool	3-4	18	102,181	24.3
Kindergarten	5	5	49,869	13.8
1	6	10	51,269	26.9
2	7	6	52,299	15.8
3	8	6	52,131	15.9
4	9	7	53,612	18.0
5	10	12	53,712	30.8
6	11	6	52,765	15.7
7	12	12	52,359	31.6
8	13	8	51,910	21.2
9	14	3	51,405	8.0
10	15	8	49,974	22.0
11	16	7	49,983	19.3
12	17	9	50,211	24.7

\* Rate is calculated per 100,000 person-years. School age incidence rates were calculated using the average age of a student in each grade. High incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2014-2019\* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward. 2019 data, through MMWR week ending January 5 (MMWR week 1)

## Incidence of Pertussis by Local Health Department, 2019 YTD

Local Health Department	2019 Cases	Rate*
Bear River	14	10.7
Central Utah	1	1.7
Davis County	14	5.5
Salt Lake County	147	17.8
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	34	19.9
Summit County	3	10.1
Tooele County	3	6.1
TriCounty	1	2.5
Utah County	39	8.9
Wasatch County	5	21.5
Weber-Morgan	36	18.8

\* 2019 data includes pertussis cases reported year to date. 2014-2018 data reflects cases reported during the entire calendar year for each year.

